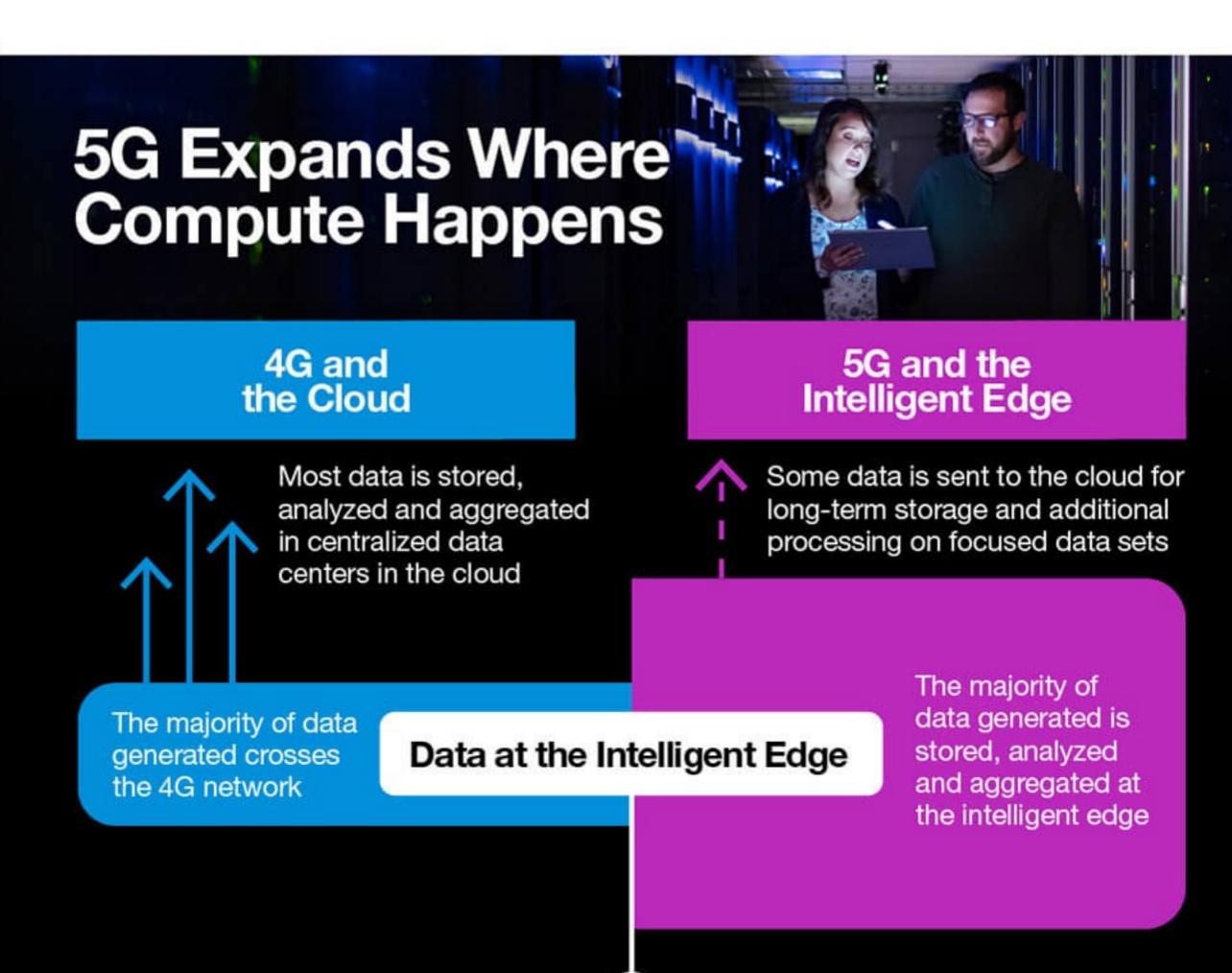


Solve 5G Data **Challenges With** More Intelligence at the Edge

The effects of 5G will be felt far beyond blazing fast data for mobile phones speeds that enable HD movie downloads in seconds.1 As 5G exponentially increases the amount of data we use, generate and store, compute must continue expanding beyond the cloud - to the physical network and devices at the network edge.

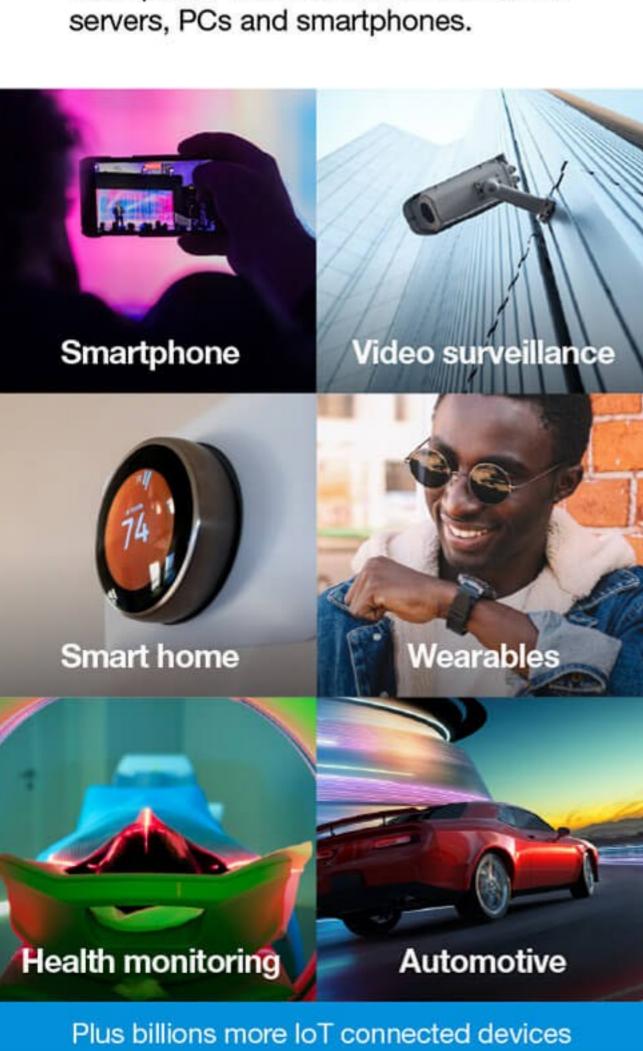


What Is the Intelligent Edge? This is the growing set of connected systems and devices at the physical network

edge where data is analyzed and aggregated close to where it is generated.

Edge Devices

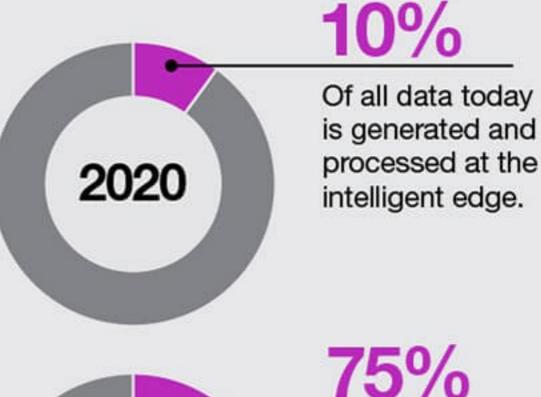
Expanding intelligence means giving 5G-connected edge devices and the internet of things (IoT) the computing horsepower that was once exclusive to servers, PCs and smartphones.

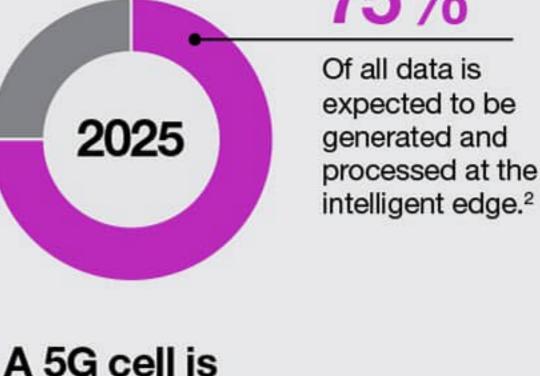


5G Generates More Data Faster

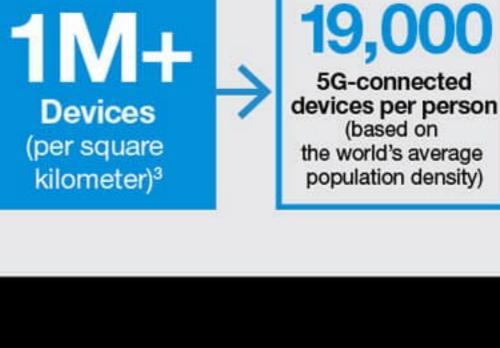
at the Edge

Facts About Data

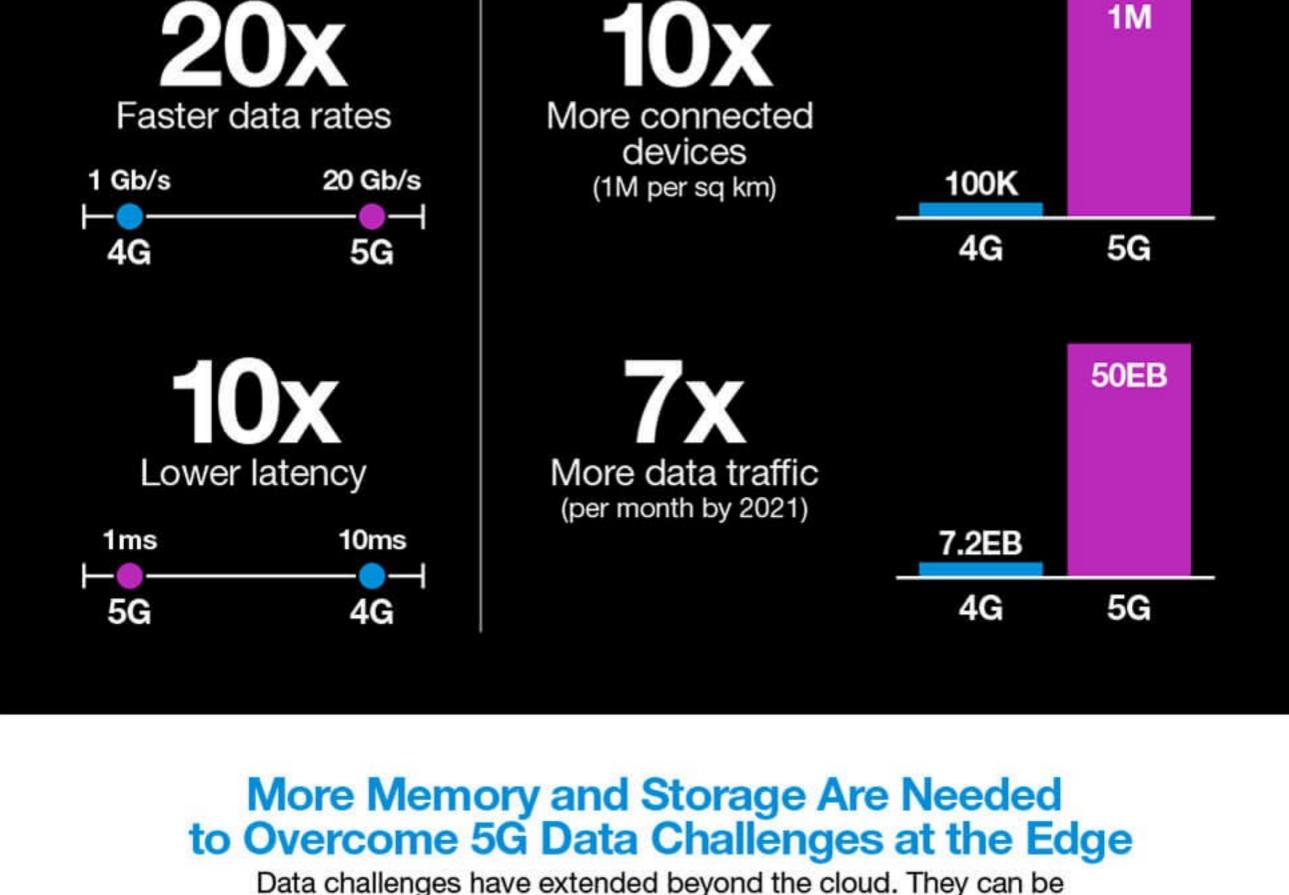




expected to support



The massive amounts of data from 5G-enabled devices make edge intelligence critical to avoid overwhelming data centers with mountains of data.4



Solution Challenge Data and Unprecedented amounts of Scalable, high-bandwidth

solved with advanced memory and storage at the network edge.

Device Volume data will be generated from storage and memory are more connected 5G devices. needed to keep growing quantities of data moving fast.

Responsiveness	Processing data in the cloud delays the real-time response (low latency) required for 5G-connected edge devices.	High-bandwidth, low-latency memory and storage in edge devices enable near-real-time analysis and processing.
Data Security	That data must be protected where it was generated.	Security embedded directly in flash memory hardware helps protect data where it is created and consumed.
Micron Memory and Storage Are the Heart of the Intelligent Edge The key to creating more intelligence in 5G-connected edge devices lies in enabling		
data to be stored, moved, processed and secured efficiently. Micron's expansive portfolio of memory and storage products helps solve 5G's data challenges.		

Low-power DRAM NOR flash memory Automotive-grade memory High-performance Low-latency, Multichip packages and memory quickly high-endurance memory low-power DRAM are processes data in delivers reliable code and

data storage for

applications requiring

fast boots, random-read

return to an energy-efficient sleep mode. MicroSD cards Consumer- and industrial-grade storage cards deliver blazing fast file transfers with

high endurance

and video

battery-powered

devices so they can

access and low-density data storage.

Micron DRAM Authenta™ technology Affordable Chip-level security guards 5G-enabled devices against devices. unauthorized

suitable for advanced

autonomous vehicles.

driver-assistance systems

(ADAS) and levels 4 and 5

Mainstream 3D managed NAND

High-capacity and high-performance memory provides high-speed data storage holds retrieval for edge massive amounts of 5G data where it is created.

access and recording malware. redundancy.

Learn more: micron.com/5gmemory

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Sources

- 1 Let's Talk, "5G vs. 4G"
- ² Gartner, "What Edge Computing Means for Infrastructure and Operations Leaders"
- 3 Lifewire, "5G Speed: How to Understand the Numbers" 4 Qorvo, "Getting to 5G"

